

AN 82-79665E [38] WPIDS  
TI Di carboxylic acid prepn. - by culturing yeast strain belonging to  
**Pichia carbofelas** which can oxidise opt. unsatd.  
mono carboxylic acid.  
DC A60 D16 E17 G02  
PA (DNIN) DAINIPPON INK & CHEM KK; (DNII) DAINIPPON INK INST CHEM RES  
CYC 1  
PI JP 57129694 A 820811 (8238)\* 5 pp  
PRAI JP 81-15794 810206  
AN 82-79665E [38] WPIDS  
AB JP57129694 A UPAB: 930915

Method comprises either (a) inoculating a novel yeast strain belonging to **Pichia carbofelas** and can oxidise linear opt. unsatd. monocarboxylic acid (I) to dicarboxylic acid (II), in a culture medium contg. (I) as the substrate, (b) culturing it aerobically or (a') oxidising (I) in the presence of the yeast strain and (c) recovering accumulated (II).

Long chain (above C12) dicarboxylic acids are useful as the crosslinking agents for powder paint use and the material for polyamide resin, high grade plasticiser, etc. They can now be economically prep'd fermentatively from (I) which can be easily obtd. from natural substances, by simple process.

As the yeast strain, **Pichia carbofelas** KR128 (FERM-P4851) and its variety P. carbofelas KR128-50(FERM-P4852), which is deficient in the utilisation of dicarboxylic acid, can be used. Culture is pref. in a medium contg. sugar as C source at 20-40 deg. pref. 25-35 deg. C at pH 6.5-7.5 pref. ca. 7.0 aerobically.